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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/578,907	05/12/2006	Friedrich Boecking	R.306606	3247
2119 RONALD E. G	7590 05/26/200 REIGG	EXAMINER		
GREIGG & GREIGG P.L.L.C.			NGUYEN, DINH Q	
1423 POWHATAN STREET, UNIT ONE ALEXANDRIA, VA 22314		JNE	ART UNIT	PAPER NUMBER
			3752	
			MAIL DATE	DELIVERY MODE
			05/26/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/578,907	BOECKING, FRIEDRICH			
		Examiner	Art Unit			
		Dinh Q. Nguyen	3752			
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	orrespondence address			
WHIC - Exter after - If NC - Failu Any (	ORTENED STATUTORY PERIOD FOR REPL' CHEVER IS LONGER, FROM THE MAILING Donsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Depend for reply is specified above, the maximum statutory period or re roply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)	Responsive to communication(s) filed on <u>15 D</u>	ecember 2008				
′—		action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
٥,١	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dienositi	ion of Claims	,				
· ·						
•	Claim(s) <u>16-21 and 28-35</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
•	5) Claim(s) is/are allowed.					
· ·	Claim(s) <u>16-21</u> is/are rejected.					
•	Claim(s) <u>28-35</u> is/are objected to.					
8)[	Claim(s) are subject to restriction and/o	r election requirement.				
Applicati	on Papers					
9)☐ The specification is objected to by the Examiner.						
10)	The drawing(s) filed on is/are: a)☐ acc	epted or b)⊡ objected to by the I	Examiner.			
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	∋ 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority ι	ınder 35 U.S.C. § 119					
a)[	Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureausee the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage			
2)  Notic 3)  Inform	t(s) te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate			

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### **DETAILED ACTION**

### Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 16-35 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The amended claim 1 has been amended with limitation "a first spring element (24) which surrounds the booster housing (9), wherein the pressure booster (8) is directly braced against the first spring element (24)" that is contradicting with the amended paragraph 0027 of the specification, wherein "A first spring element 24 is braced on an end face 23 of the sleeve 19 diametrically opposite the bite edge 21. The first spring element 24 is embodied annularly and encloses the booster portion 11 of the injection valve member 10. Spiral springs, tube springs, or other annularly embodied spring elements known to one skilled in the art are suitable examples as spring elements 24. With its other side, the spring element 24 is braced against a ring 25, which is preferably located in a plunge cut 26 that is located between the booster portion 11 and the guide portion 12 of the injection valve member 10.". The spring element that surrounds the booster housing is the second spring element 27 that surrounds the booster housing 9 that "braced with one side on a step 28 on the booster housing 9 and with its other side on a ring 29, which rests on a step 30 of the pressure booster 8" as disclosed at paragraph 0028 of the specification, thus the pressure booster is not directly braced against the first spring element but via ring 29. The

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amended claim 28 cites "wherein the sleeve (19) comprises a bite edge (21), which is pressed, by means of a <u>second</u> spring (27)" that is contradicting with the amended paragraph 0027 of the specification, wherein "A <u>first</u> spring element 24 is braced on an end face 23 of the sleeve 19 diametrically opposite the bite edge 21." Claim 33 recites the limitation "the step" in line 4. There is insufficient antecedent basis for this limitation in the claim.

3. For the purpose of this Office action, the claims will be examined as best understood by the examiner.

# Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 16-21 are rejected under 35 U.S.C. 102(b) as being anticipated by Ruehle (WO 01/29403) as best understood by the examiner.

Ruehle discloses a high-pressure fuel reservoir that connected to inlet 37, a pressure booster adjacent to element 6 received in a booster housing 7/4b, an injection valve member 20/23/33 that has at least one booster portion 20 and that has one needle portion 33 that closes at least one injection opening, a first spring element 8 which surrounds the booster housing 7/4b, wherein the pressure booster is directly braced against the first spring element, and a nozzle housing 13/15/16/17 with part 13 that encloses the injection valve member 23, wherein the booster housing 7/4b is

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pressed against the nozzle housing part 15/16/17 by the first spring element 8, the booster portion 23 of the injection valve member 20/23/33 is enclosed by a sleeve 25/26, the sleeve 25/26 laterally defining and sealing off a booster chamber 32, and the booster chamber 32 being defined on two diametrically opposite sides by a lower end face of the pressure booster and by an end face of the booster portion 23 of the injection valve 20/23/33.

## Allowable Subject Matter

6. Claims 28-35 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten or amend to overcome the objections and rejections under 35 U.S.C. 112, 2<sup>nd</sup> paragraph, set forth in this office action, and rewritten in independent form including all of the limitations of the base claim and any intervening claims.

### Response to Arguments

- 7. Applicant's arguments filed December 15, 2008 have been fully considered but they are not persuasive in view of Ruehle that the Examiner using the disclosure of U.S. Patent No 6,685,105 as the English language for the German text for the WO 01/29403 reference.
- 8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dinh Q. Nguyen whose telephone number is 571-272-4907. The examiner can normally be reached on Monday-Thursday 6:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Len Tran can be reached on 571-272-1184. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Dinh Q Nguyen/ Primary Examiner, Art Unit 3752

dqn